

APPENDIX C

HYDRODYNAMIC AND ECOLOGICAL MODELING LITERATURE CITED

- Allen, A.W., and R.D. Hoffman. 1984. Habitat suitability index models: Muskrat. U.S. Fish and Wildlife Service. FWS/OBS-82/10.46. 27 pp.
- Anderson, S.H., and K.J. Gutzwiller. 1996. Habitat evaluation methods. pages 592-606 In T.A. Bookhout (editor) Research and Management Techniques for Wildlife and Habitats.
- Baecher, G. B. et al. 2000. Risk analysis and uncertainty in flood damage reduction studies. National Academy Press, Washington, D.C. 202 pp.
- Baldwin, A. H., and I. A. Mendelssohn. 1998. Effects of salinity and water level on coastal marshes: an experimental test of disturbance as a catalyst for vegetation change. *Aquatic Botany* 61:255-268.
- Baltz, D.M., R. G. Thomas, and E.J. Chesney. 2003. Spotted seatrout habitat affinities in Louisiana. Pages 147-175 In S.A. Bortone (editor) *Biology of the Spotted Seatrout*, CRC Press, Boca Raton, FL.
- Baltz, D.M., C. Rakocinski, and J.W. Fleeger. 1993. Microhabitat use by marsh-edge fishes in a Louisiana estuary. *Environmental Biology of Fishes* 36: 109-126.
- Baltz, D.M., J.W. Fleeger, C. Rakocinski, and J.N. McCall. 1998. Food, density, and microhabitat: factors affecting growth and recruitment potential of juvenile saltmarsh fishes. *Environmental Biology of Fishes* 53: 89-103.
- Barataria Basin Existing Data And Numerical Model Review And Analysis, Moffatt & Nichols Engineers, July 2000.
- Barreas, J., S. Beville, D. Britsch, S. Hartley, S. Hawes, J. Johnston, P. Kemp, Q. Kinler, A. Martucci, J. Porthouse, D. Reed, K. Roy, S. Sapkota, and J. Suhayda. 2003. Historic and Predicted Coastal Louisiana Land Changes: 1978-2050. USGS Open File Report 03-334, 27 pp.
- Baumann, R.H., J.W. Day, Jr., and C.A. Miller. 1984. Mississippi deltaic wetland survival: sedimentation versus coastal submergence. *Science* 234:1093-1095.
- Bazzaz, F.A. 1997. Allocation of resources in plants: state of the science and critical questions. In: F.A. Bazzaz and J. Grace (eds.); *Plant Resource Allocation*. Academic Press, New York. p. 1-37.
- Bertness, M. D, L. Gough, and S. W. Shumway. 1992. Salt tolerances and the distribution of fugitive salt marsh plants. *Ecology* 73:1842-1851.
- Bertness, M. D., and S. M. Yeh. 1994. Cooperative and competitive interactions in the recruitment of marsh elders. *Ecology* 75: 2416-2429.
- Bettinger, K.M. and R.B. Hamilton. 1985. Avian Use of Levee Habitat Types, Rockefeller Wildlife Refuge, Louisiana, Fourth Coastal Marsh and Estuary Management Symposium, Baton Rouge, LA, pp. 165-186.
- Bloom, A.J., F.S. Chapin III, and H.A. Mooney. 1985. Resource limitation in plants - an economic analogy. *Annual Review of Ecology and Systematics* 16:363-392.
- Blumberg, A. F., and Mellor, G. L. 1987. "A description of a three-dimensional coastal model." *Three Dimensional Coastal Ocean Models*, N. S. Heaps, ed., American Geophysical Union, Washington, D.C., 1-16.
- Blumberg A. F., Khan L.A., John J.P. 1999. Three-Dimensional Hydrodynamic Model for New Youk Harbor Region, *Journal of Hydraulic Engineering*, Vol. 125, No. 8.

- Boesch, D.F., Josselyn M.N., Mehta A.J., Morris J.T., Nuttle W.K., Simenstad C.A., and D.J.P.Swift. 1994. Scientific assessment of coastal wetland loss, restoration and management in Louisiana. *Journal of Coastal Research* 20.
- Boumans, R and Day, Jr., J. W. 1993. High precision measurements of sediment elevation in shallow coastal areas using a sedimentation-erosion table. *Estuaries* 16:375-380.
- Bovee, K. D., B. L. Lamb, J. M. Bartholow, C. B. Stalnaker, J. G. Taylor, and J. Henriksen. 1998. Stream Habitat Analysis Using the Instream Flow Incremental Methodology. Biological Resources Division Information and Technology Report USGS/BRD-1998-0004, 131 pp.
- Bradley, P. M., and J. T. Morris. 1993. Effect of salinity on the critical nitrogen concentration of *Spartina alterniflora* Loisel. *Aquatic Botany* 43(2):149-161.
- Bradshaw, A. D. 1995. Alternatives Endpoints for Reclamation. Pages 165-185 in J. Cairns, ed. *Rehabilitating Damaged Ecosystems*. Lewis Publishers, Boca Raton, Florida
- Brinson, M. M. 1993. A hydrogeomorphic classification for wetlands, US Army Corps of Engineers.
- Brinson, M. M. and Rheinhardt, R. 1996. The role of reference wetlands in functional assessment and mitigation. *Ecological Applications* 6, 69-76.
- Britsch, L. D. and J. B. Dunbar. 1993. Land loss rates: Louisiana coastal plain. *Journal of Coastal Research* 9: 324-338.
- Broome, S. W., I. A. Mendelsohn, and K. L. McKee. 1995. Relative growth of *Spartina patens* (Ait.) Muhl. and *Scirpus olneyi* Gray occurring in a mixed stand as affected by salinity and flooding depth. *Wetlands* 15:20-30.
- Buck, D.H. 1956a. Effects of turbidity on fish and fishing. *Oklahoma Fish. Res Lab. Rep.* 56. 62 pp.
- Buck, D.H. 1956b. Effects of turbidity on fish and fishing. *Trans. N. Am Wildl. Conf.* 21: 249-261.
- Buresh, R.J., R.D. DeLaune and W.H. Patrick, Jr. 1980. Nitrogen and phosphorus distribution and utilization by *Spartina alterniflora* in a Louisiana Gulf Coast Marsh. *Estuaries*: 3:111 121.
- Cahoon, D. R. and C.G. Groat. 1990. A Study in March Management Practive in Coastal Louisiana, Vol. 1: Executive Summary. Final report to Minerals Management Service, New Orleans, Louisiana. Cooperative Agreement 14-12-0001-30410.
- Cahoon, D.R. 1994. Recent accretion in two managed marsh impoundments in coastal Louisiana. *Ecological Applications* 4:166-176.
- Callaway, J. C., J. A. Nyman, and R. D. DeLaune. 1996. Sediment accretion in coastal wetlands: a review and a simulation model of processes. *Current topics in wetland biogeochemistry* 2:2-23.
- Callaway, J.C., R.D. DeLaune and W.H. Patrick, Jr. 1997. Sediment accretion rates from four coastal wetlands along the Gulf of Mexico. *J. Coastal Res.* 13: 181-191.
- CENR. 2000. Integrated Assessment of Hypoxia in the Northern Gulf of Mexico. National Science and Technology Council Committee on Environment and Natural Resources, Washington, DC.
- Chabreck, R. H. 1972. Vegetation, water and soil characteristics of the Louisiana coastal region. *Louisiana Agricultural Experiment Station Bulletin* 664.
- Chabreck, R.H. and C.M. Hoffpauir. 1962. The Use of Weirs in Coastal Marsh Management in Louisiana. *Proc. Southeast Association Game and Fish Commision.* 16:103-112.
- Chesney, E.J., D.M. Baltz, and R.G. Thomas. 2000. Louisiana estuarine and coastal fisheries and habitats: Perspectives from a fish's eye view. *Ecol. Appl.* 10:350-366.
- Childs C.R., Rabalais NN, Turner RE, Proctor LM. 2002. Sediment denitrification in the Gulf of Mexico zone of hypoxia. *Marine Ecology Progress Series* 240: 285-290.
- Christmas, J.Y., J.T. McBee, and R.C. Sutter. 1982. Habitat suitability index models: Gulf menhaden. U.S. Department of the Interior Fish and Wildlife Service, FWS/OBS-82/10.23. 23 p.

- Christensen, N.L., et al. 1996. The report of the Ecological Society of America committee on the scientific basis for ecosystem management. *Ecological applications* 6:665-691.
- Chmura, G. L., R. Costanza, and E. Kosters. 1992. Modeling coastal marsh stability in response to sea-level rise: a case study in coastal Louisiana, USA. *Ecological Modeling* 64:47-64.
- Clark, R.D., W. Morrison, J.D. Christensen, M.E. Monaco, and M.S. Coyne. 2003. Modeling the distribution and abundance of Spotted Seatrout: integration of ecology and GIS technology to support management needs. Pages 247-265 In S.A. Bortone (editor) *Biology of the Spotted Seatrout*, CRC Press, Boca Raton, FL.
- Coleman, J. M. 1988. Dynamic changes and processes in the Mississippi River delta. *Geological Society of America Bulletin*, 100:999-1015.
- Conner, W. H., and M. Brody. 1989. Rising water levels and the future of Southeastern Louisiana swamp forests. *Estuaries* 12(4):318-323.
- Conner, W. H., and J. W. Day, Jr. 1976. Productivity and composition of a bald cypress-water tupelo site and a bottomland hardwood site in a Louisiana swamp. *American Journal of Botany* 63:1354-1364.
- Conner, W. H., and J. W. Day, Jr. 1992. Water level variability and litterfall productivity of forested freshwater wetlands in Louisiana. *American Midland Naturalist* 128:237-245.
- Conner, W. H., and J. W. Day, Jr. 1993. Bottomland hardwood productivity: case study in a rapidly subsiding, Louisiana, USA, watershed. *Wetlands Ecology and Management* 2(4):189-197.
- Conner, W. H., J. G. Gosselink, and R. T. Parrondo. 1981. Comparison of the vegetation of three Louisiana swamp sites with different flooding regimes. *American Journal of Botany* 68:320-331.
- Conner, W. H., K. W. McKleod, and J. K. McCarron. 1997. Flooding and salinity effects on growth and survival of four common forested wetland species. *Wetlands Ecology and Management* 5:99-109.
- Conner, W. H., and J. W. Day, Jr. 1992. Water level variability and litterfall productivity of forested freshwater wetlands in Louisiana. *American Midland Naturalist* 128:237-245.
- Conner W. H. and J. W. Day, Jr 1987. The ecology of Barataria basin, Louisiana: an estuarine profile. U.S. Fish and Wildlife Service Biological Report 85. 165 pp.
- Costanza, R., F. H. Sklar, M. L. White and J. W. Day. 1988. A Dynamic Spatial Simulation Model of Land Loss and Marsh Succession in Coastal Louisiana, p. 99-114. In: W. J. Mitsch, M. Staskraba, and S. E. Jorgensen (eds.), *Wetland Modelling*. Elsevier, Amsterdam.
- Costanza, R. & Daly, H. E. 1991. Natural capital and sustainable development. *Conservation Biology*
- Costanza, R. 1989. Model Goodness of Fit: a multiple resolution procedure. *Ecological Modelling* 47:199-215.
- Costanza, R., F. H. Sklar, and J. W. Day. 1987. Using the Coastal Ecological Landscape Spatial Simulation (CELSS) Model for Wetland Management. *Coastal Zone '87. Proc. of the 5th Symposium on Coastal and Ocean Management* 4:3879-3890.
- Costanza, R., F. H. Sklar, and M. L. White. 1990. Modeling Coastal Landscape Dynamics. *BioScience* 40:91-107.
- Costanza, R., F. H. Sklar, M. L. White, and J. W. Day. 1989. Modeling Landscape Dynamics in the Atchafalaya/Terrebonne Marshes of Coastal Louisiana Using the CELSS Model: Executive Summary. in Final Report to U.S. Fish and Wildlife Service. U.S. Fish and Wildlife Service.
- Craig, J. J., R. E. Turner, and J. W. Day, Jr. 1979. Land loss in coastal Louisiana (U.S.A.). *Environmental Management* 3:133-144.
- Cratsley, D. W. 1975. Recent deltaic sedimentation, Atchafalaya Bay, Louisiana. Master's Thesis, Louisiana State University, Baton Rouge, LA. 142 pp.

- Cunningham, R. 2004. School for the Coast and Environment, Louisiana State University. Personal Communication.
- Davis Pond Freshwater Diversion Louisiana Coastal Area Study – Pre-Construction Modeling Effort – Preliminary Model Documentation, U.S. Army Corps Of Engineers, New Orleans District, June 2000.
- Davis Pond Freshwater Diversion – TABS-MD model (RMA2 and RMA4 with and without Marsh). Developed by Mr. David Elmore, PE, U.S. Army Corps Of Engineers, New Orleans District, 2000. Delivered in two CD ROMs to LDNR.
- Day, F. P. and J. P. Megonigal. 1993. The relationship between variable hydroperiod, production allocation, and belowground organic turnover in forested wetlands. *Wetlands* 13(2): 115-121.
- Day, J. W., C. J. Madden, R. R. Twilley, R. F. Shaw, B. A. McKee, M. J. Dagg, D. L. Childers, R. C. Raynie and L. J. Rouse. 1995. The influence of Atchafalaya River discharge on Fourleague Bay, Louisiana(USA), p. 151-160. In: K. R. Dyer and R. J. Orth (eds.), Changes in Fluxes in Estuaries. Olsen and Olsen,
- Day, R. H., R. K. Holz, and J. W. Day, Jr. 1990. "An inventory of wetland impoundments in the coastal zone of Louisiana, USA: historical trends." *Environmental Management* 14 (2): 229-240.
- Day, J., Jr., Reed, D., Suhayda, J., Kemp, P., Cahoon, D., Boumans, R., and N. Latif. 1994. Physical processes of marsh deterioration. In: H.H. Roberts (ed.), Critical Physical Processes of Wetland Loss, pp. 5.1-5.40. U. S. Geological Survey, Open File Report.
- Day, J. W., Jr., J. F. Martin, Cardoch, L. Templet, P. H. 1997. "System functioning as a basis for sustainable management of deltaic ecosystems." *Coastal Management* 25: 115-153.
- Day, J. W., L. D. Britsch, S. R. Hawes, G. P. Shaffer, D. J. Reed, and D. R. Cahoon. 2000. Pattern and Process of Land Loss in the Mississippi Delta: A Spatial and Temporal Analysis of Wetland Habitat Change. *Estuaries* 23:425-438.
- DeLaune, R. D., C. N. Reddy, et al. 1981. Effect of pH and redox potential on concentration of dissolved nutrients in an estuarine sediment. *Journal of Environmental Quality* 10: 276-279.
- DeLaune, R.D., Whitcomb, J.H., Patrick, W.H., Jr., Pardue, J.H., and S.R. Pezeshki. 1989. Accretion and canal impacts in a rapidly subsiding wetland. I. ¹³⁷Cs and ²¹⁰Pb techniques. *Estuaries* 12:247-259.
- DeLaune, R.D., Nyman,J.A., and W.H. Patrick, Jr., 1994. Peat collapse, ponding, and wetland loss in a rapidly submerging coastal marsh. *Journal of Coastal Research* 10:1021-1030.
- DeLaune, R. D., W. H. Patrick, Jr, and C. J. Smith. 1992. Marsh aggradation and sediment distribution along a rapidly submerging Louisiana Gulf Coast. *Environmental Geology and Water Sciences* 20(1):57-64.
- Dettmann, E. H. 2001. Effect of water residence time on annual export and denitrification of nitrogen in estuaries: A model analysis. *Estuaries* 481-490.
- Diaz, R.J., and C.P. Onuf. 1985. Habitat suitability index models: juvenile Atlantic croaker. U.S. Department of the Interior Fish and Wildlife Service, Biological report 82(10.98). 23 p.
- Dicke, S. G. and J. R. Toliver. 1990. Growth and development of Baldcypress/Water Tupelo stands under continuous versus seasonal flooding. *Forest Ecology and Management* 33/34: 523-530.
- Dinnel, S.P. 1984. Distribution and Residence Time of Freshwater on the West Louisiana and Texas Continental Shelves. Unpubl. M.S. Thesis. Louisiana State University, Baton Rouge. 89pp.
- Dortch M. S and Gerald, J. G. 1995. Screening-Level Model for estimating Pollutant Removal by Wetlands. Wetlands Research Program Technical Report WRP-CP-9. US Corp of Engineers. Waterways Experiment Station. Final report.

- Duke James H., Jr. 1985. Calcasieu River Basin, Louisiana: Modeling Study Submitted to the Louisiana Department of Environmental Quality.
- Ehrlich, P.R. and H.A. Mooney. 1983. Extinction, substitution and ecosystem services. BioScience 33:248-254.
- Eleuterius, L. N. 1989. Natural selection and genetic adaptation to hypersalinity in *Juncus roemerianus* Scheele. Aquatic Botany 36(1):45-53.
- Engle, V. D., J.M. Macauley, J. K Summers, and P.Bourgeois. 1999. Ecological condition of estuaries in the Gulf of Mexico. EPA/620-R-98-004. U. S Environmental Protection Agency, National Health and Environmental Effects Research Labaratory, gulf Ecology Division. Gulf Breeze, Fl. 71 p.
- Evers, D. E., G. O. Holm, Jr., G. W. Peterson, Erick M. Swenson, Visser, J. M., and C. E. Sasser. 1998. Vegetation, hydrologic, and substrate characteristics of the marshes in the White Lake region of the Chenier Plain, Louisiana. Report to U. S. Environmental Protection Agency, Region 6, Marine and Estuarine Section, Dallas, Texas.
- Ewel, J.J. 1987. Restoration is the ultimate test of ecological theory. In: Restoration ecology: a synthetic approach to ecological research, W.R. Jordan,M.E. Gilpin and J.D. Aber (eds.), pp.31-33, Cambridge University Press, Cambridge, England.
- Ewing, K., K. McKee, I. Mendelsohn, and M. Hester. 1995. A comparison of indicators of sublethal salinity stress in the salt marsh grass, *Spartina patens* (Ait.) Muhl. Aquatic Botany 52:59-74.
- Faulkner, S. P., and M. E. Poach. 1996. Functional Comparison of Created and Natural Wetlands in the Atchafalaya Delta, Louisiana. U.S. Army Corps of Engineers Technical Report WRP-RE-16. 106 pp.
- Fisk, H. N., E. McFarlan, Jr., et al. 1954. "Sedimentary framework of the modern Mississippi Delta." Journal of Sedimentary Petrology 24 (2): 76-99.
- Fitzgerald, S. M. 1998. The Development and Sand Body Geometry of the Wax Lake Outlet Delta, Atchafalaya Bay, Louisiana. MS thesis. Louisiana State Univ., Baton Rouge.
- Flynn, K. M., B. J. Wilsey, and I. A. Mendelsohn. 1990. Vegetation and soil response to marsh management. In: D. R. Cahoon and C. G. Groat, editors. A study of marsh management practice in coastal Louisiana. Volume III, Ecological evaluation. Final Report submitted to Minerals Management Service (MMS), New Orleans, Louisiana, Contract Number 14-12-0001-30410. Outer Continental Shelf Study/MMS 90-0077, pp. 440-482.
- Flynn, K. M., K. L. McKee, I. A. Mendelsohn. 1995. Recovery of freshwater marsh vegetation after a saltwater intrusion event. Oecologia 103:63-72.
- Foret, J. D. 1997. Accretion, Sedimentation, and Nutrient Accumulation Rates as Influenced by Manipulations in Marsh Hydrology in the Chenier Plain, Louisiana. MS thesis. University of Louisiana at Lafayette.
- Foret, J. D. 2001. Nutrient Limitation of Tidal Marshes on the Chenier Plain, Louisiana. Ph.D. dissertation. University of Louisiana at Lafayette.
- Foret, J.D., J.A. Nyman, L.P. Rozas, K.A. Rose, J.H. Cowan, and D. Baltz. 2003. Louisiana Coastal Assessment Habitat Use Module. Draft Report to the LCA Comprehensive Ecosystem Restoration Plan. May 2, 2003. 23 pp.
- Gael, B. T. and C. S. Hopkinson. 1979. Drainage density, land use, and eutrophication in Barataria basin, Louisiana, pp. 147-163. In: J. W. Day, Jr., D.D. Culley, Jr., R.E. Turner, and A.J. Mumphrey, Jr. (Ed.). Proceedings of the third coasta marsh and estuary management symposium. LSU, division of Continuing Education, Baton Rouge.
- Gagliano, S. M. 1999. Faulting, subsidence and land loss in coastal Louisiana. Coastal Environments Inc., Baton Rouge, LA.

- Gagliano, S. and J. L. Van Beek. 1975. An approach to multiuse management in the Mississippi delta system, pp. 223-238. In: M. S. Broussard, (ed.), Deltas, models for exploration. Houston Geological Society, Texas. 555 pp.
- Gagliano, S., Meyer-Arendt, K., and K. Wicker. 1981. Land loss in the Mississippi River deltaic plain. Transactions of the Gulf Coast Association of Geological Societies 31:295-300.
- Gammill S., Balkum K., Duffy Ken, Porthouse J., Meselhe E., Ramsey E., and Walters R. (2001) "Hydrologic Investigation of the Louisiana Chenier Plain." Main report prepared for the Louisiana Coastal Wetland Planning, Protection and Restoration Act Task Force.
- Georgiou, I. Y., and McCorquodale, J. A. 2002. "Stratification and circulation patterns in lake pontchartrain, *Estuarine and Coastal Modeling*, M. L. Spaulding and B. H. Lee, eds., ASCE, New York.
- Georgiou, I. Y., and McCorquodale, J. A. 2000. "Salinity Stratification from a Navigation Canal in a Shallow Lake." in *Stratified Flows*, G. A. Lawrence, R. Pieters and M. Yonemitsu, eds., *Int. Assoc. for Hydraulic Research*, (IAHR), University of British Columbia, Vancouver, BC, Canada, 2, 859-864.
- Gilmore, R.G. 1986. Fish, Macrocrustacean and Avian Population Dynamics and Cohabitation in Tidally Influenced Impounded Subtropical Wetlands. pp.374-394, In: Proceedings Symposium on Waterfowl and Wetlands Management in Coastal Zone of Atlantic Flyway, Wilmington, DE.
- Gleeson, S.K. and D. Tilman. 1992. Plant allocation and the multiple limitation hypothesis. *The American Naturalist* 139(6):1322-1343.
- Good, B. J. and W. H. J. Patrick. 1987. Gas composition and respiration of water oak (*Quercus nigra* L.) and green ash (*Fraxinus pennsylvanica* Marsh.) roots after prolonged flooding. *Plant and Soil* 97: 419-427.
- Goolsby D. A, Battaglin W. A, Aulenbach BT, Hooper R.P. 2001. Nitrogen input to the Gulf of Mexico. *Journal of Environmental Quality* 30 (2): 329-336.
- Gosselink, J. G. 1970. Growth of *Spartina patens* and *Spartina alterniflora* as influenced by salinity and source of nitrogen. *Coastal Studies Bulletin No. 5, Special Sea Grant Issue, Louisiana State University*. Pp 97-110.
- Gosselink, J. G., and C. E. Sasser. 1995. Causes of wetland loss. Pp. 203-236 In: D. J. Reed (ed.) *Status and Historical Trends of Hydrologic Modification, Reduction in Sediment Availability, and Habitat Loss/Modification in the Barataria and Terrebonne Estuarine System*. BTNEP Publ. No. 20, Barataria-Terrebonne National Estuary Program, Thibodaux, Louisiana.
- Gosselink, J. G. 1998. Coastal Louisiana. In: Mac, M.J. P. A. Opler, C.E. Puckett Haecker, and P. D. Doran. *Status and trends of the nation's biological resources*. 2 vols. U. S. Department of the interior, U. S. Geological Survey, Reston, Va. 964 pp.
- Gosselink, J. G. 1984. The ecology of delta marshes of coastal Louisiana: a community profile.
- Gosselink, J. G. and R. E. Turner 1978. The role of hydrology in freshwater wetland ecosystems. Freshwater wetlands: Ecological processes and management potential. R. E. Good, D. F. Whigham and R. L. Simpson. New York, Academic Press: 63-78.
- Gosselink, J.G., C.L. Cordes, and J.W. Parsons. 1979. An Ecological Characterization of the Chenier Plain Coastal Ecosystem of Louisiana and Texas, vol. I. FWS/OBS-78/9. 301pp.
- Gould, H. R. and J. McFarlan, E. 1959. "Geologic history of the Chenier Plain, southwestern Louisiana." Transactions-Gulf Coast Association of Geological Societies 9: 261-270.
- Grace, J. B., and M. A. Ford. 1996. The potential impact of herbivores on the susceptibility of the marsh plant *Sagittaria lancifolia* to saltwater intrusion in coastal wetlands. *Estuaries* 19:13-20.
- Greiner La Peyre, M. K., J. B. Grace, E. Hahn, and I. A. Mendelssohn. 2001. The importance of competition in regulating plant species abundance along a salinity gradient. *Ecology* 82(1):62-69.

- Grime, J.P. 1977. Evidence for the existence of three primary strategies in plants and its relevance to ecological and evolutionary theory. *The American Naturalist* 111(982):1169-1194.
- Haralampides, K. 2000. "A study of the hydrodynamics and salinity regimes of the Lake Pontchartrain system." *Ph.D. Dissertation*, Dept. of Civil and Environmental Engineering, University of New Orleans, New Orleans, LA.
- Haralampides, K., Georgiou, I. Y., and McCorquodale, J. A. 2000. Water quality impacts on the Lake Pontchartrain estuarine system." *Proc. of the 75th Annual Conference of the Water Environ. Fed.*, October 15-21, Anaheim, CA.
- Haralampides, K., McCorquodale, J. A., and Georgiou, I.Y. 2001. "Modeling of Lake Pontchartrain, Louisiana; environmental management applications." *Proc. of the 15th Bi-annual Canadian Hydrotechnical Conference*, CSCE, May 30 - June 2, Victoria, BC, Canada.
- Harding, J. M., R. H. Preller, and R. Rhodes, 1999b. Coastal Ocean Prediction at the Naval Research Laboratory. Third Conference on Coastal Atmospheric and Oceanic Prediction and Processes, Preprint Volume, American Meteorological Society, 236-240.
- Hartley, S., Pace, R. III, Johnston, J. B., and others, 2000, A GAP analysis of Louisiana Final report and data Lafayette, LA, U.S. Department of the Interior, U.S. Geological Survey, 2 CD-ROM's
- Hatton, R.S., DeLaune, R.D., and W.H. Patrick, Jr. 1983. Sedimentation, accretion, and subsidence in marshes of Barataria Basin, Louisiana. *Limnology and Oceanography* 28: 494-502.
- Hester, M.W., I. A. Mendelsohn, and K. L. McKee. 2001. Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints. *Environmental and Experimental Botany* 46:277-297.
- Hester, M. W., K. J. Fisher, E. A. Spalding, and J. M. Willis. 2002. Investigations of global sea-level rise scenarios on adventitious root formation and their potential role in marsh accretion processes. Final Report, Louisiana Board of Regents. 41 pp.
- Höppner, S. S. 2002. Feasibility and Projected Benefits of a Diversion into the Degraded Cypress-Tupelo Swamp in the Southern Lake Maurepas Wetlands, Lake Pontchartrain Basin, Louisiana. M. S.Thesis, Southeastern Louisiana University, Hammond, LA.
- Hopkinson, C. S., J. G. Gosselink, and R. T. Parrondo. 1978. Aboveground production of seven marsh plant species in coastal Louisiana. *Ecology* 59(4):760-769.
- Hopkinson, C.S. And J. P. Schubauer. 1984. Static and dynamic aspects of nitrogen cycling in the salt marsh graminoid *Spartina alterniflora*. *Ecology* 65:961-969.
- Hopkinson, C. S., J. G. Gosselink, and R. T. Parrondo. 1980. Production of coastal Louisiana marsh plants calculated from phenometric techniques. *Ecology* 61(5):1091-1098.
- Houghton, R.A. 1994. The worldwide extent of land-use change. *Bioscience* 44:305-313.
- Howard, R. J., and I. A. Mendelsohn. 1999a. Salinity as a constraint on growth of oligohaline marsh macrophytes. I. Species variation in stress tolerance. *American Journal of Botany* 86(6):785-794.
- Howard, R. J., and I. A. Mendelsohn. 1999b. Salinity as a constraint on growth of oligohaline marsh macrophytes. II. Salt pulses and recovery potential. *American Journal of Botany* 86(6):795-806.
- Howard, R. J., and I. A. Mendelsohn. 2000. Structure and composition of oligohaline marsh plant communities exposed to salinity pulses. *Aquatic Botany* 68:143-164.
- Huston, M. 1994. *Biological Diversity*. Cambridge University Press.
- Jin K.R. 2000. Application of Three-Dimensional Hydrodynamic Model for Lake Okeechobee. *Journal of Hydraulic Engineering*, Vol 126, No.10.
- Jones, R.F., D.M. Baltz, and R.L. Allen. 2002. Patterns of resource use by fishes and macroinvertebrates in Barataria Bay, Louisiana. *Marine Ecology Progress Series* 237: 271-289.

- Justic D, Rabalais NN, Turner RE. 2002. Modeling the impacts of decadal changes in riverine nutrient fluxes on coastal eutrophication near the Mississippi River Delta Ecological Modelling. 152 (1): 33-46.
- Kaminski, R.M., H.H. Prince. 1981. Dabbling duck and aquatic macroinvertebrate responses to manipulated wetland habitat. *Journal of Wildlife Management* 45:1-15.
- Kadalec, R. H., Knight, R. L. 1996. Treatment Wetlands. Lewis Publishers. Boca Raton. 893 p.
- Keddy, P. A. 2001. *Wetland Ecology: Principles and Applications*. Cambridge University Press, Cambridge.
- Keeland, B. D., and W. H. Conner. 1999. Natural regeneration and growth of *Taxodium distichum* (L.) Rich. In Lake Chicot, Louisiana after 44 years of flooding. *Wetlands* 19(1):149-155.
- Keeland, B. D. and R. R. Sharitz. 1995. Seasonal growth patterns of *Nyssa sylvatica* var. *biflora*, *Nyssa aquatica*, and *Taxodium distichum* as affected by hydrologic regime. *Canadian Journal of Forestry Research* 25: 1084-1096.
- Keeley, J. E. 1979. Population differentiation along a flood frequency gradient: physiological adaptations to flooding in *Nyssa sylvatica*. *Ecological Monographs* 49(1): 89-108.
- Kemp, P. R., and G. L. Cunningham. 1981. Light, temperature and salinity effects on growth, leaf anatomy and photosynthesis of *Distichlis spicata* (L.). *American Journal of Botany* 68(4):507-516.
- Kentula, M. E., R. P. Brooks, S. E. Gwin, C. C. Holland, A. D. Sherman, and J. C. Sifneos. 1993. An approach to improving decision making in wetland restoration and creation. CRC Press
- Kesel, R. 1988. The decline in the suspended load of the lower Mississippi River and its influence on adjacent wetlands. *Environmental Geology and Water Science* 11:271-281.
- Kinler, Q.J., R.H. Chabreck, N.W. Kinler, and R.G. Linscombe. 1990. Effect of tidal flooding on mortality of juvenile muskrats. *Estuaries* 13:337-340.
- Kolb, C. R. and J. R. Van Lopik. 1958. Geology of the Mississippi River Deltaic Plain – southeastern Louisiana. U.S. Army Corps of Engineers, Vicksburg, Mississippi, Waterways Experiment Station Technical Report 2:3-482.
- Kostecki, P.T. 1984. Habitat suitability index models: spotted seatrout. U.S. Department of the Interior Fish and Wildlife Service, FWS/OBS-82/10.75. 22 p.
- Kulp, M.A. 2000. Holocene stratigraphy, history, and subsidence: Mississippi River delta region, north-central Gulf of Mexico. Ph.D. thesis, University of Kentucky, Lexington, Kentucky. 335 p.
- LCWRTF. 1999a. Coast 2050: Toward a Sustainable Coastal Louisiana, Appendix E—Region 3 Supplemental Information. Louisiana Department of Natural Resources, Baton Rouge, Louisiana. 173 pp.
- LCWRTF. 1999b. Coast 2050: Toward a Sustainable Coastal Louisiana, Appendix D—Region 2 Supplemental Information. Louisiana Department of Natural Resources, Baton Rouge, Louisiana. 170 pp.
- Louisiana Coastal Wetlands Conservation and Restoration Task Force. 2002. Hydrologic Investigation of the Louisiana Chenier Plain. Baton Rouge, LA: Louisiana Department of Natural Resources, Coastal Restoration Division. 135pp. plus appendices.
- Letter, J. V., Jr. 1982. The Atchafalaya River Delta. Report 3. Extrapolation of Delta Growth. U.S. Army Corps of Engineers Technical Report HL-82-15. 114 pp.
- Linscombe, G., R. H. Chabreck, and S. Hartley. 2001. Caernarvon Diversion Project Vegetation Changes from 1997 to 2001. U.S. Army Corps of Engineers Poster.

- Linscombe G. and N. Kinler. 1985. Fur harvest distribution in coastal Louisiana. PP.187-199 In C. F. Bryant, P.J. Zwank, and R.H. Chabreck (eds.) Proceedings of the fourth coastal marsh and estuary management symposium. Louisiana State University Agricultural Center.
- Linthurst, R. A., and E. D. Seneca. 1981. Aeration, nitrogen and salinity as determinants of *Spartina alterniflora* Loisel. growth response. *Estuaries* 4(1):53-63.
- Louisiana Coastal Wetlands Conservation and Restoration Task Force (LCWCRTF). 1998. Coast 2050: Towards a Sustainable Coastal Louisiana. Louisiana Department of Natural Resources, Baton Rouge, Louisiana. 162 pp.
- Madden, C. J., J. W. Day Jr., et al. 1988. Freshwater and marine coupling in estuaries of the Mississippi River deltaic plain. *Limnology and Oceanography* 33: 982-1004.
- Martin, J. F., E. Reyes, G. P. Kemp, H. Mashriqui, and J. Day, J.W. 2002. Landscape Modeling of the Mississippi Delta. *BioScience* 52:357-365.
- Martin, J. F., M. L. White, E. Reyes, G. P. Kemp, H. Mashriqui, and J. W. Day. 2000. Evaluation of Coastal Management Plans with a Spatial Model: Mississippi Delta, Louisiana, USA. *Environmental Management* 26:117-129
- Martin, J. F. 2000. Manipulations of Natural System Functions within the Mississippi Delta: A Simulation-Modeling Study. Dissertation. Louisiana State University, Baton Rouge, LA.
- Mashriqui, H. S., G. P. Kemp, J. N. Suhayda, and R. Cunningham. 1997. Lower Atchafalaya Re-evaluation Study, Long Term Dredging Criteria for Atchafalaya Modeling. Open File Report US Army Corps of Engineers, New Orleans District., Louisiana State University, Baton Rouge, LA.
- Mason, C. 2004. NOAA National Ocean Service, Silver Spring, Maryland. Personal Communication.-
- McAnally, W. H., Berger, R.C., Bonnet C W.C., Isphording, F.D., Imsand, G.C. Flowers. 1996. "Bonnet Carré freshwater diversion, numerical model investigation of pontchartrain basin estuary salinity changes." Hydraulics Laboratory, USACE, Waterways Experiment Station, Vicksburg, MS.
- McCarron, J. K., K. W. McLeod, and W. H. Conner. 1998. Flood and salinity stress of wetland woody species, buttonbush (*Cephalanthus occidentalis*) and swamp tupelo (*Nyssa sylvatica* var. *biflora*). *Wetlands* 18(2):165-175.
- McCorquodale, J. A., Barbé, D. E., Wang, Y. and Carnelos, S. 2001. "Freshwater Inflows to the Lake Pontchartrain System." *Environmental Atlas of Lake Pontchartrain Basin.*" in S. Penland, A. Beall and J. Waters, eds., Lake Pontchartrain Basin Foundation, New Orleans, LA, 65.
- McKee, K. L., and I. A. Mendelssohn. 1989. Response of a freshwater marsh plant community to increased salinity and increased water level. *Aquatic Botany* 34:301-316.
- McIsaac, G.F, David M.B, Gertner G.Z, Goolsby DA. 2002. Relating net nitrogen input in the Mississippi River basin to nitrate flux in the lower Mississippi River: A comparison of approaches. *Journal of Environmental Quality* 31 (5): 1610-1622
- McNease, L., and T. Joanen. 1978. Distribution and relative abundance of the alligator in Louisiana Coastal marshes. *Proceedings of the Southeastern Association of Fish and Wildlife Agencies* 32:182-186.
- Megonigal, J. P., W. H. Conner, S. Kroeger, and R. R. Sharitz. 1997. Aboveground production in southeastern floodplain forests: a test of the subsidy-stress hypothesis. *Ecology* 78(2):370-384.
- Mellor, G. L. 1998. "A Three-dimensional, primitive equation, numerical ocean model." A users guide, *Atmospheric and Oceanic Sciences*, Princeton University, Princeton, NJ.
- Mellor, G. L., and Yamada T. 1982. "Development of a turbulence closure model for geophysical fluid problems." *Rev. Geophys. Space Phys.*, 20, 851-875.
- Meselhe E.A. 2001. "Trajectory Analysis Planner Program for the Calcasieu Estuary." Final report submitted to the Oil Spill Research and Development Program, Baton Rouge, Louisiana.

- Meselhe E. A. and Noshi H. M. 2001a. "Hydrodynamic and Salinity Modeling of the Calcasieu-Sabine Basin" Proceedings of the World Water and Environmental Resources Congress, May 20-24, Orlando, Florida.
- Meselhe E.A, and Noshi, H. 2001b. "Hydrodynamic and salinity modeling of the Calcasieu-Sabine basin." Final report submitted to Louisiana Department of Natural Resources, Coastal Restoration Division, Baton Rouge, Louisiana.
- Meselhe, E.A. and R.R. Twilley. Unpublished.
- Meselhe E. A., Waldon M., Stronach J., and Iblings M. 2001. "Hydrologic Investigation Of The Calcasieu Estuary" Proceedings of the Hydroinformatics 2000, 23-27 July, University of Iowa, Cedar Rapids, Iowa.
- Minello T.J., R.J. Zimmerman, and R. Medina. 1994. The importance of edge for natant macrofauna in a created salt marsh. *Wetlands* 14:184-198.
- Minello, T. J. and L. P. Rozas. 2002. Nekton in Gulf Coast wetlands: fine-scale distributions, landscape patterns, and restoration implications. *Ecological Applications* 12:441-455.
- Minority Report. 1991. A Study of Marsh Management Practice in Coastal Louisiana (Draft). LDNR, LDWF, SCS, Verm Corp., Fina LaTerre, and USFWS.
- Mitsch, W. J., and J. G. Gosselink. 2000. *Wetlands*, 3rd Edition. John Wiley and Sons, New York, New York. 920 pp.
- Mitsch, W. J., J. R. Taylor, and K. B. Benson. 1991. Estimating primary productivity of forested wetland communities in different hydrologic landscapes. *Landscape Ecology* 5(2): 75-92.
- Mitsch, W. J. Day, J. W., Gilliam, W., Groffman, P. M., Hey, D. L., Randall, G. L., Wang, N. 2001 Reducing nitrogen loading to the Gulf of Mexico from the Mississippi River basin:Strategies to counters a persistent ecological problem. *Bioscience* 51:373-388
- Moffatt & Nichol Engineers. 2000. Barataria Basin RMA2 Numerical Model Review and Analysis. Final Report to Louisiana Department of Natural Resouces, Baton Rouge, Louisiana, October 31, 2000. 24p+ app
- Morris, J. T., and W. B. Bowden. 1986. A mechanistic, numerical model of sedimentation, mineralization, and decomposition for marsh sediments. *Soil Science Society of America Journal* 50:96-105.
- Morton, R.A., N.A. Buster and M.D. Krohn. 2002. Subsurface controls on historical subsidence rates and associated wetland loss in southcentral Louisiana. *Gulf Coast Assoc. Geol. Soc., Transactions*. 52: 767-778.
- Mossa, J. 1988. Discharge –sediment dynamics of the lower Mississippi River. *American Association of Petroleum Geologists Bulletin* 72:1118-1119.
- Mossa, J. 1996. Sediment dynamics in the lowermost Mississippi River. *Engineering Geology* 45:457-479.
- Muncy, R.J., G.J. Atchison, R.V. Bulkley, B.W. Menzel, L.G. Perry, and R.C. Summerfelt. 1979. Effects of suspended solids and sediment on reproduction and early life of warmwater fishes: a review. U.S. Environmental Protection Agency EPA-600/3-79-042.
- Nash, L. J. and W. R. Graves. 1993. Drought and flood stress effects on plant development and leaf water relations of five taxa of trees native to bottomland habitats. *Journal of the American Society of Horticultural Science* 118(6): 845-850.
- Neill, C. and L. A. Deegan. 1986. The effect of Mississippi River delta lobe development on the habitat composition and deiversity of Louisiana coastal wetlands. *American Midland Naturalist* 116:296-303.

- Newsom, J.D., T. Joanen, and R. Howard. 1987. Habitat suitability index model: American alligators. Biological Report 82(10.136). National Wetlands Research Center, Fish and Wildlife Service, U.S. Dept. of the Interior, Washington, D.C.
- Nichols, L.G. 1959. Geology of Rockefeller Wild Life Refuge and Game Preserve, Cameron and Vermilion Parishes, Louisiana. Technical Bulletin of the Louisiana Wild Life and Fisheries Commission, Refuge Division. New Orleans, Louisiana.
- Nixon, S. M., and V. Lee. 1986. Wetlands and Water Quality. Technical Report Y-86-2, U.S Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
- NOAA. 1997. NOAA's Estuarine Eutrophication Survey, Vol 4: Gulf of Mexico region. Silver Spring, MD: National Ocean Service, Office of Ocean Resources Conservation and Assessment. 78 pp.
- Nyman, J.A. Unpublished Data.
- Nyman, J.A., DeLaune, R., and W. Patrick, Jr. 1990. Wetland soil formation in the rapidly subsiding Mississippi River deltaic plain: mineral and organic matter relationships. *Estuarine, Coastal and Shelf Science* 31:57-69.
- Nyman, J.A., DeLaune, R.D., Patrick, W.H., Jr., and H.H. Roberts. 1993. Relationship between vegetation and soil formation in a rapidly submerging coastal marsh. *Marine Ecology Progress Series* 96:269-279.
- Nyman, J.A., R.H. Chabreck, and N. Kinler. 1993. Some effects of herbivory and 30 years of weir management on emergent vegetation in a brackish marsh. *Wetlands*. 13(3):165-175.
- Oey, L.-Y., G.L. Mellor, and R. I. Hires. 1985a. "A three-dimensional simulation of the Hudson-Raritan estuary." Part I: Description of the model and model simulations, *J. Phys. Oceanogr*, 15, 1676-1692.
- Oey, L.-Y., G. L. Mellor, and R. I. Hires. 1985b. "A three-dimensional simulation of the Hudson-Raritan estuary." Part II: Comparison with observation, *J. Phys. Oceanogr.*, 15, 1693-1709.
- O'Neil, T. 1949. The Muskrat in the Louisiana Coastal Marshes. Louisiana Wildlife and Fisheries Commission, New Orleans, Louisiana.
- Overton, W. S. (1977). "A strategy of model construction." *Ecosystem modeling in theory and practice*. C. A. S. Hall and J. W. Day, Jr., ed., John Wiley and Sons, New York, 49-73.
- Palmisano, A. W., Jr. 1970. Plant community-soil relationships in Louisiana coastal marshes. Dissertation, Louisiana State University, Baton Rouge, Louisiana, USA.
- Palmisano, A.W. 1973. Habitat preference of waterfowl and fur animals in the northern Gulf Coast Marshes. pages 163-190 In R.H. Chabreck (editor) Proceeding of the coastal marsh and estuary management symposium. Louisiana State University, Division of Continuing Education.
- Parrondo, R. T., J. G. Gosselink, and C. S. Hopkinson. 1978. Effects of salinity and drainage on the growth of three salt marsh grasses. *Botanical Gazette* 139(1):102-107.
- Penfound, W. T., and E. S. Hathaway. 1938. Plant communities in the marshlands of southeastern Louisiana. *Ecological Monographs* 8:1-56.
- Penland, S., Wayne, L., Britsch, L. D., Williams, S. J., Beall, A. D., Butterworth, V. C., 2001, Geomorphic Classification of Coastal Land Loss between 1932 and 1990 in the Mississippi River Delta Plain, Southeastern Louisiana: USGS Open File Report 00-417. Poster. URL: <http://pubs.usgs.gov/of/of00-417/index.html>.
- Penland, S., and K. Ramsey. 1990. Relative sea-level rise in Louisiana and the Gulf of Mexico: 1908-1988. *Journal of Coastal Research* 6:323-342.
- Penland, S., R. Boyd, and J. R. Suter. 1988. Transgressive depositional systems of the Mississippi Delta Plain: a model for barrier shoreline and shelf sand development. *Journal of Sedimentary Petrology* 58:932-949.

- Penland, S. and J. R. Suter 1989. The geomorphology of the Mississippi Chenier Plain. *Marine Geology* 90:231-258.
- Pennington, W., R. S. Cambray, and E. H. Fisher. 1973. Observations on lake sediments using ^{137}Cs fallout as a tracer. *Nature* 242:324-326.
- Peterson G.W., R.E. Turner. 1994. The value of salt marsh edge vs interior as a habitat for fish and decapod crustaceans in a Louisiana tidal marsh. *Estuaries* 17:235-262.
- Pezeshki, S. R., and R. D. DeLaune. 1993. Effects of soil hypoxia and salinity on gas exchange and growth of *Spartina patens*. *Marine Ecology Progress Series* 96:75-81.
- Pezeshki, S. R., and R. D. DeLaune 1995. Variations in the response of two US Gulf coast populations of *Spartina alterniflora* to hypersalinity. *Journal of Coastal Research* 11(1):89-95.
- Pezeshki, S. R., R. D. DeLaune, and W. H. Patrick Jr. 1987a. Effects of flooding and salinity on photosynthesis of *Sagittaria lancifolia*. *Marine Ecology Progress Series* 41:87-91.
- Pezeshki, S. R., R. D. DeLaune, and W. H. Patrick Jr. 1987b. Response of the freshwater marsh species, *Panicum hemitomon* Schult, to increased salinity. *Freshwater Biology* 17:195-200.
- Pezeshki, S. R., R. D. DeLaune and W. H. J. Patrick. 1987. Response of Baldcypress (*Taxodium distichum* L. var. *distichum*) to increases in flooding salinity in Louisiana's Mississippi River Deltaic Plain. *Wetlands* 7: 1-10.
- Pezeshki, S. R., R. D. DeLaune, and W. H. Patrick Jr. 1988. Effect of salinity on leaf ionic content and photosynthesis of *Taxodium distichum* L. *American Midland Naturalist* 119(1):185-192.
- Pezeshki, S. R., W. H. Patrick Jr., R. D. DeLaune, and E. D. Moser. 1989. Effects of waterlogging and salinity interaction on *Nyssa aquatica* seedlings. *Forest Ecology and Management* 27:41-51.
- Pezeshki, S. R., R. D. DeLaune and W. H. J. Patrick. 1990. Flooding and saltwater intrusion: potential effects on survival and productivity of wetland forests along the U.S. Gulf Coast. *Forest Ecology and Management* 33/34: 287-301.
- Pezeshki, S. R., R. D. DeLaune and P. H. Anderson. 1999. Effect of flooding on elemental uptake and biomass allocation in seedlings of three bottomland tree species. *Journal of Plant Nutrition* 22(9): 1481-1494.
- Prolux, G., and F.F. Gilbert. 1983. The ecology of the muskrat, *Ondatra zibethicus* at Luther Marsh, Ontario. *Canadian Field Naturalist* 97:377-390.
- Rabalais N.N., R.E. Turner, and D.Scavia. 2002. Beyond science into policy: Gulf of Mexico hypoxia and the Mississippi River. *Bioscience* 52 129-142.
- Rabalais, N.N, R.E. Turner, D. Justic, Q. Dortch, W.J Wiseman, B.K. Sen Gupta. 1996. Nutrient changes in the Mississippi River and system responses on the adjacent continental shelf. *Estuaries* 19: 386-407.
- Reed, D.J., (ed.). 1995. Status and historical trends of hydrologic modification, reduction in sediment availability, and habitat loss/modification in the Barataria and Terrebonne Estuarine System, Figure 6.6. BTNEP Publ. No. 20, Barataria-Terrebonne National Estuary Program, Thibodeaux, Louisiana.
- Reed, D., and D. Cahoon. 1992. The relationship between marsh surface topography, hydroperiod, and growth of *Spartina alterniflora* in a deteriorating Louisiana salt marsh. *Journal of Coastal Research* 8:77-87.
- Reyes, E., J. F. Martin, M. L. White, J. W. Day, and G. P. Kemp. 1998. Landscape Modeling of Coastal Louisiana: Regional mechanisms of land loss. Pages 202-217 In: L. P. Rozas, J. A. Nyman, C. E. Profitt, N. N. Rabalais, D. J. Reed, and R. E. Turner, editors. *Recent Research in Coastal Louisiana*. Louisiana Sea Grant College Program, Lafayette, LA.

- Reyes, E., J. F. Martin, M. L. White, J. W. Day, and G. P. Kemp. 2003. Habitat Changes in the Mississippi Delta: Future scenarios and alternatives. Pages 119-142 in A. Voinov and R. Costanza, editors. *Explicit Landscape Modeling*. Springer-Verlag, New York.
- Reyes, E., M. L. White, J. F. Martin, G. P. Kemp, J. W. Day, and V. Aravamuthan. 2000. Landscape Modeling of Coastal Habitat Change in the Mississippi Delta. *Ecology* 81:2331-2349.
- Rivera-Monroy, V.H., K. Teague, E.M. Swenson, J. Barko, M.S. Dortch, D. Justic, J.A. McCorquodale, and J.M. Nesler. 2003. Louisiana Coastal Assessment Water Quality Module. Draft Report to the LCA Comprehensive Ecosystem Restoration Plan. June 16, 2003. 20 pp.
- Roberts, H. H., R. D. Adams, and R. H. W. Cunningham. 1980. Evolution of sand dominated subaerial phase, Atchafalaya Delta, Louisiana. *American Association of Petroleum Geologists Bulletin* 64:264-279.
- Rybczyk, J. M. and D. R. Cahoon. 2002. Estimating the potential for submergence for two wetlands in the Mississippi River Delta. *Estuaries* 25(5):985-998.
- Rogers, B. D., R.F. Shaw, W.H. Herke and R.H. Blanchet. 1993. Recruitment of postlarval and juvenile brown shrimp (*Penaeus aztecus* Ives) from offshore to estuarine waters of the Northwestern Gulf of Mexico. *Estuarine, Coastal and Shelf Science* 36:377-394.
- Roberts, H. H. 1977. Dynamic changes of the Holocene Mississippi River delta plain: the delta cycle. *J. Coast. Res.* 13:605-627.
- Ross, M. S., J. F. Meeder, J. P. Sah, P. L. Ruiz, and G. J. Telesnicki. 2000. The Southeast Saline Everglades revisited: 50 years of coastal vegetation change. *Journal of Vegetation Science* 11: 101-112.
- Rozas, L. P. and R. J. Zimmerman. 2000. Small-scale patterns of nekton use among marsh and adjacent shallow nonvegetated areas of the Galveston Bay Estuary, Texas (USA). *Marine Ecology Progress Series* 193:217-239.
- Sasser, C. E. 1977. Distribution of vegetation in Louisiana coastal marshes as response to tidal flooding. Thesis, Louisiana State University, Baton Rouge, Louisiana. 40 pp.
- Sasser, C. E., and J. G. Gosselink. 1984. Vegetation and primary production in a floating freshwater marsh in Louisiana. *Aquatic Botany* 20:245-255.
- Sasser, C. E., E. M. Swenson, D. E. Evers, J. M. Visser, G. O. Holm, Jr., and J. G. Gosselink. 1994. Floating marshes in the Barataria and Terrebonne Basins, Louisiana. Report to U.S. Environmental Protection Agency, Region 6 Marine and Estuarine Section, Dallas, Texas.
- Sasser, C. E., J. M. Visser, D. E. Evers, and J. G. Gosselink. 1995. The role of environmental variables in interannual variation in species composition and biomass in a sub-tropical minerotrophic floating marsh. *Canadian Journal of Botany* 73(3):413-424.
- Sasser, C. E., D. E. Evers, J. G. Gosselink, G. O. Holm, Jr., E. M. Swenson, and J. M. Visser. 2002. Ecological evaluation of the CWPPRA Central and Eastern Terrebonne Basin Freshwater Delivery Project. Prepared for Louisiana Department of Natural Resources, Baton Rouge, LA. 113 pp.
- Schroeder, R.L. 1982. Habitat Suitability Index Models: Yellow Warbler, U.S. Department of Interior, Fish and Wildlife Service. FWS/OBS-82/10.27, 22pp.
- Schroeder, R. L., and S. L. Haire 1993. "Guidelines for the development of community-level habitat evaluation models," Biological Report 8, U. S. Fish and Wildlife Service, Washington, DC.
- Shaffer, G. P., C. E. Sasser, J. G. Gosselink, and M. Rejmanek. 1992. Vegetation dynamics in the emerging Atchafalaya Delta, Louisiana, USA. *Journal of Ecology* 80 (4): 677-687.
- Signell, R.P. and J.H. List. 1997. "Modeling Waves and Circulation in Lake Pontchartrain." *Gulf Coast Association of Geological Societies Transactions*, 47, 529-532.

- Sklar, F. H., R. Costanza, and J. W. Day. 1985. Dynamic Spatial Simulation Modeling of Coastal Wetland Habitat Succession. *Ecological Modelling*:261-281.
- Smolarkiewicz, P. K., and Clark, T. L. 1986. "The multidimensional positive definite advection transport algorithm: further development and applications." *J. Computational Physics*, 67, 396-438.
- Smolarkiewicz, P. K. 1984. "A fully multidimensional positive definite advection transport algorithm with small implicit diffusion." *J. Computational Physics*, 54, 325-362
- Soniat, T. M. and M. S. Brody. 1988. Field validation of a habitat suitability index model for the American oyster. *Estuaries* 11(2): 87-95.
- Sousa, P.J. 1982. Habitat Suitability Index Models: Veery, U.S. Department of the Interior, Fish and Wildlife Service. FWS/OBS-82/10.22, 17pp.
- Spalding, E. A, and M. W. Hester. In Preparation. Interactive effects of salinity and hydrology on oligohaline plant species performance in monoculture and mixture. *Journal of Ecology*.
- Stakhiv, E., R. Cole, P. Scodari and L. Martin. 2003. Draft report on improving environmental benefits analysis. Institute for Water Resources, US Army Corps of Engineers. January 2003.
- Stronach, J.A., Backhaus, J.O., & Murty, T.S. 1993. An update on the numerical simulation of the waters between Vancouver Island and the mainland: the GF8 model. *Oceanography and Marine Biology Annual Review*. 31, 1-86.
- Stuber, R.J., G. Gebhart, and O.E. Maughan. 1982. Habitat suitability index models: Largemouth bass. U.S. Dept. Int. Fish Wildl. Serv. FWS/OBS-82/10.16. 32pp.
- Stunz, G.W., T.J. Minello, and P.S. Levin. 2002. A comparison of early juvenile red drum densities among various habitat types in Galveston Bay, Texas. *Estuaries* 25:76-85.
- Suhayda, J., J. Austin, B. Nuttle, V. Stutts, E.M. Swenson, and J. Callaway. 2003. Louisiana Coastal Area Land Building Module. Draft Report to the LCA Comprehensive Ecosystem Restoration Plan. January 17, 2003. 4 pp.
- Swenson, E. M. And, R. E. Turner. 1987. Spoil banks : effects on a coastal marsh water - level regime. *Estuarine, Coastal and Shelf Science* 24, 599-609.
- Templet and Meyer-Arendt 1988. Louisiana wetland loss: Regional water management approach to the problem. *Environmental Management* 12:181-192.
- Thom, B.G. 1982. Mangrove ecology-a geomorphological perspective. In *Mangrove Ecosystems in Australia*, B.F. Clough (ed.), pp. 3-17. Australian National University Press, Canberra.
- Thomann, V. R., and Mueller, J. A. 1987. *Principles of Surface Water Quality Modeling and Control*, Harper Collins Publishers Inc., New York.
- Thomas, W. A., R. E. Heath, J. P. Stewart, D. G. Clark. 1982. The Atchafalaya River Delta. Report 5. The Atchafalaya River Delta Quasi-Two-Dimensional Model of Delta Growth and Impacts on River Stages. U.S. Army Corps of Engineers Technical Report HL-82-15. 172 pp.
- Thomas, W.A., and W.H. McAnnally, Jr. 1990. User's Manual for the Generalized Computer Program Systems for Open Channel Flow and Sedimentation: TABS-2 System. U.S. Army Corps of Engineers, Waterways Experiment Station, Hydraulics Laboratory, Vicksburg, MS.
- Turner, R. E. and M. S. Brody. 1983. Habitat suitability index models: northern Gulf of Mexico brown shrimp and white shrimp. U.S. Department of the Interior Fish and Wildlife Service, FWS/OBS-82/10.54. 24 p.
- Turner, R.E., and D.R. Cahoon. (eds.). 1987. Causes of wetland loss in the Coastal Central Gulf of Mexico. Volume II: Technical Narrative. Final report submitted to Minerals Management Service, New Orleans, LA. Contract No. 14-12-0001-30252. OCS Study/MMS 87-0120. 400 pp.
- Turner, R.E. and J.G. Gosselink (1975). "A note on standing crops of *Spartina alterniflora* in Texas and Florida." *Marine Science* 19: 113-118.

- Turner, R.E. 1987. Relationship between canal and levee density and coastal land loss in Louisiana. U.S. Fish Widl. Serv. Biol Rep 85(14). 58pp.
- Turner, R. E. 1997. Wetland loss in the northern Gulf of Mexico: multiple working hypotheses. *Estuaries* 20:1-13.
- Turner, R. E. 2001. Estimating the indirect effects of hydrolic change on wetland loss: if the earth is curved, then how would we know it? *Estuaries* 24:639-646.
- Turner RE, Swenson EM, Summers JK. 1995. Coastal wetlands indicator study: EMAP-Estuaries Louisianian Province, 1991. Gulf Breeze (FL): U.S. Environmental Protection Agency, Office of Research and Development, Environmental Research Laboratory. EPA/620/R-95/005. 99 pp.
- Twilley, R.R., Rivera-Monroy, V.H., Chen, R., Botero, L. 1999. Adapting an ecological mangrove model to simulate trajectories in restoration ecology. *Marine Pollution Bulletin* 37:404-419.
- Twilley, R.R., R. R. Gottfried, V.H. Rivera-Monroy, M. M. Armijos, A. Bodero. 1998. An approach and preliminary model of integrating ecological and economic constraints of environmental quality in the Guayas River estuary, Ecuador. *Environmental Science and Policy* 1:271-288.
- Twilley, R.R., E. Barron, H.L. Gholz, M.A. Harwell, R.L. Miller, D.J. Reed, J.B. Rose, E. Siemann, R.G. Welzel and R.J. Zimmerman. 2001. Confronting Climate Change in the Gulf Coast Region: Prospects for Sustaining Our Ecological Heritage. Union of Concerned Scientists, Cambridge, MA and Ecological Society of America, Washington, DC.
- Twilley, R. 2003. Conceptual models for developing the LCA Comprehensive Restoration Plan., Lafayette, LA.
- Users Guide To RMA2 WES Version 4.5, USACE, Waterways Experiment Station – Hydraulics Laboratory.
- USACE. 2000a. Users Guide to RMA2 WES Version 4.5 (September 2000). US. Army Engineer Research and Development Center, Waterways Experiment Center, Vicksburg, MS.
- USACE. 2000b. Davis Pond Freshwater Diversion - TABS-MD Model (RMA2 and RMA4 With and Without Marsh) Developed by David Elmore, PE. Delivered by USACE, New Orleans District, in 2 Compact Disks to the Louisiana Department of Natural Resources, Baton Rouge, Louisiana.
- USEPA 1999. Ecological Condition of Estuaries in the Gulf of Mexico. EPA 620-R-98-004. U.S. Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, Florida
- U.S. Fish and Wildlife Service. 1980. Standards for the development of habitat suitability index models. 103 ESM, U.S. Fish and Wildlife Service, Washington, DC.
- U.S. Geological Survey. Unpublished Data.
- Van Heerden, I.L. 1983. Deltaic Sedimentation in eastern Atchafalaya Bay, Louisiana. Ph.D. Thesis, Department of Marine Science. Louisiana State University, Baton Rouge, pp.116.
- Visser, J. M., C. E. Sasser, R. H. Chabreck, and R. G. Linscombe. 2000. Marsh vegetation types of the Chenier Plain, Louisiana, USA. *Estuaries* 23(3):318–327.
- Visser, J. M., C. E. Sasser, R. H. Chabreck, and R. G. Linscombe. 1998. Marsh vegetation types of the Mississippi River Deltaic Plain, USA. *Estuaries* 21(4B): 818–828.
- Visser, J.M., G.D. Steyer, G.P. Shaffer, S.S. Hoeppner, M.W. Hester, E. Reyes, P. Keddy, I.A. Mendelsohn, C.E. Sasser, and C. Swarzenski. 2003a. Louisiana Coastal Area Habitat Switching Module. Draft Report to the LCA Comprehensive Ecosystem Restoration Plan. January 17, 2003. 81 pp.
- Visser, J. M., D. J. Reed, G. D. Steyer, J. Callaway, E. Swenson, G. Suir, and J. N. Suhayda. 2003b. Louisiana coastal area nourishment module. In: R. Twilley, editor. Conceptual models for developing the LCA Comprehensive Restoration Plan., Lafayette, LA.

- Visser, J. M., C. E. Sasser, R. H. Chabreck, and R. G. Linscombe. 2002. The impact of a severe drought on the vegetation of a subtropical estuary. *Estuaries* 25(6):1185-1196.
- Waide, J. B., and J. R. Webster 1976. "Engineering systems analysis: Applicability to ecosystems." *Systems analysis and simulation in ecology*. B. C. Patten, ed., Academic Press, New York, Vol IV, 329-371.
- Warren, R. S., and P. M. Brockelmann. 1989. Photosynthesis, respiration, and salt gland activity of *Distichlis spicata* in relation to soil salinity. *Botanical Gazette* 150(4):346-350.
- Webb, E., Mendelsohn, I., and B. Wilsey. 1995. Causes for vegetation dieback in a Louisiana salt marsh: a bioassay approach. *Aquatic Botany* 51:281-289.
- Webb, E. C., and I. A. Mendelsohn. 1996. Factors affecting vegetation dieback of an oligohaline marsh in coastal Louisiana: field manipulation of salinity and submergence. *American Journal of Botany* 83:1429-1434.
- Weller, M.W. 1978. Management of freshwater marshes for wildlife. Pages 267-284 In: R.E. Good, D.F. Whigham, and R.L. Simpson (editors). *Ecological Processes and Ecological Potential*. Academic Press, New York.
- Wells, J. T., S. J. Chinburg, and J. M. Coleman. 1982. Development of the Atchafalaya River Deltas: Generic Analysis. U. S. Army Corps of Engineers, Waterways Experiment Station., Vicksburg, MS.
- Wharton, C. H., W. M. Kitchens, E. C. Pendleton, and T. W. Snipe. 1982. The Ecology of Bottomland Hardwood Swamps of the Southeast: a community profile. US Fish and Wildlife Service, Washington, D.C. 133 pp.
- White, D.S. And B.L. Howes. 1994. Translocation, remineralization and turnover of nitrogen in the roots and rhizomes of *Spartina alterniflora* (Gramineae). *Am. J. Bot* 81:1225-1234.
- Willis, J. M., and M. W. Hester. Accepted. Interactive effects of salinity, flooding, and soil type on *Panicum hemitomon*. *Wetlands*.
- Wilson, B. 2004. Ducks Unlimited, Lafayette, Louisiana. Personal Communication.
- Wiseman, W.J. Jr. and E.M. Swenson 1989. Modeling the effects of produced waters discharges on estuarine salinity. Chapter 2 in D.F. Boesch and N.N. Rabalais (eds). *Environmental Impact of Produced Water Discharges in Coastal Louisiana*. Louisiana Universities Marine Consortium, Chauvin, Louisiana 70344. Prepared for The Mid-Continent Oil and Gas Association 287 pp.
- Woodroffe, C. (1992). Mangrove sediments and geomorphology. In: *Tropical Mangrove Ecosystems* (A. I. Robertson and D. M. Alongi, ed.), pp. 7-42. American Geophysical Union, Washington, D.C.
- Zimmerman, R.J. and T.J. Minello. 1984. Densities of *Penaeus aztecus*, *P. setiferus*, and other natant macrofauna in a Texas salt marsh. *Estuaries* 7:421-433.